**Treatment BMPs
Checklist T-1, Part 2**

Prepared by: Date: District-Co-Route:

PM: Project ID/EA: RWQCB:

***Infiltration Devices***

***Feasibility***

1. Does local Basin Plan or other local ordinance provide influent limits on quality of water that can be infiltrated, and would infiltration pose a threat to groundwater quality? [ ]  Yes [ ]  No
2. Does infiltration at the site compromise the integrity of any slopes in the area? [ ]  Yes [ ]  No
3. Is site located over a previously identified contaminated groundwater plume? [ ]  Yes [ ]  No

If “Yes” to any question above, Infiltration Devices are not feasible; stop here and consider other approved Treatment BMPs.

1. At the invert, does the soil type classify as NRCS Hydrologic Soil Group (HSG) D, or does the soil have an infiltration rate < 0.5 inches/hr? [ ]  Yes [ ]  No

If “Yes”, the location can only be considered if vector control has been addressed (e.g., underground).

1. (a.) Does site have groundwater within 5 ft of basin invert? [ ]  Yes [ ]  No

(b) Does site investigation indicate that the infiltration rate is significantly greater than 2.5 inches/hr? [ ]  Yes [ ]  No

If “Yes” to either part of Question 5, adequate groundwater information must be available or contact RWQCB for concurrence before approving the site for infiltration.

1. Does adequate area exist within the RW to place Infiltration Device(s)? [ ]  Yes [ ]  No

If “Yes”, continue to Design Elements sections. If “No”, continue to Question 7.

1. If adequate area does not exist within RW, can suitable, additional RW be acquired to site Infiltration Devices and how much RW would be needed to treat WQV, or a portion thereof? \_\_\_\_\_\_\_\_\_ acres [ ]  Yes [ ]  No

If Yes, continue to Design Elements section.

If No, continue to Question 8.

1. If adequate area cannot be obtained, document in Section 6 of the SWDR that the inability to obtain adequate area prevents the incorporation of this Treatment BMP into the project. [ ]  Complete

***Design Elements – Infiltration Basin***

**\* Required Design Element –** A “Yes” response to these questions is required to further the consideration of this BMP into the project design. Document a “No” response in Section 6 of the SWDR to describe why this Treatment BMP cannot be included into the project design.

**\*\* Recommended Design Element –** A “Yes” response is preferred for these questions, but not required for incorporation into a project design.

1. Has an investigation been conducted, including subsurface soil investigation, in-hole conductivity testing and groundwater elevation determination? (This report must be completed for PS&E level design.) \* [ ]  Yes [ ]  No
2. Has an upstream bypass or overflow spillway with scour protection been provided? \* [ ]  Yes [ ]  No
3. Is the Infiltration Basin size sufficient to capture the WQV, or portion thereof, with a maximum 96-hour drawdown time? Longer drawdown times may be allowable if vector controls have been implemented (e.g., underground chamber with flap gates) and coordinated with the District/Regional Design Stormwater Coordinator.\* [ ]  Yes [ ]  No
4. Can access be provided to the invert of the Infiltration Basin? \* [ ]  Yes [ ]  No
5. Can the Infiltration Basin accommodate the freeboard above the overflow event elevation (reference Appendix B.1.6.1)? \* [ ]  Yes [ ]  No
6. Can the Infiltration Basin be designed with interior side slopes no steeper than 4:1 (h:v) (may be 3:1 [h:v] with approval by District Maintenance)? \* [ ]  Yes [ ]  No
7. Can vegetation be established in an earthen basin at the invert and on the side slopes for erosion control and to minimize re-suspension? If No, consider rock or similar protective system. Note: Infiltration Basins may be lined, in which case no vegetation would be required for lined areas.\*\* [ ]  Yes [ ]  No
8. Can diversion be designed, constructed, and maintained to bypass flows exceeding the WQV? \*\* [ ]  Yes [ ]  No
9. Can a gravity-fed maintenance drain be placed? \*\* [ ]  Yes [ ]  No
10. Does the CDA for the device have trash treatment requirements?\*\* [ ]  Yes [ ]  No

If Yes, design and certify as Multi Benefit Trash Treatment (*See Caltrans Multi Benefit Treatment BMP Trash Full Capture Requirements Design Guidance*).

***Design Elements – Infiltration Trench***

1. Has an investigation been conducted, including subsurface soil investigation, in-hole conductivity testing and groundwater elevation determination? (This report must be completed for PS&E level design.) \* [ ]  Yes [ ]  No
2. Is the surrounding soil within Hydrologic Soil Groups (HSG) Types A, B, and C while preserving an acceptable infiltration rate? \* [ ]  Yes [ ]  No
3. Is the Infiltration Trench size sufficient to capture the WQV, or portion thereof, with a maximum 96-hour drawdown time? Longer drawdown times may be allowable, coordinate with the District/Regional Design Stormwater Coordinator.\* [ ]  Yes [ ]  No
4. Is the depth of the Infiltration Trench £ 13 ft? \* [ ]  Yes [ ]  No
5. Can an observation well be placed in the trench? \*\* [ ]  Yes [ ]  No
6. Can access be provided to the Infiltration Trench? \* [ ]  Yes [ ]  No
7. Can pretreatment be provided to capture sediment in the runoff (such as using vegetation or a flow splitter with a sump)? \*\* [ ]  Yes [ ]  No
8. Can flow diversion be designed, constructed, and maintained to bypass flows exceeding the Water Quality event? \*\* [ ]  Yes [ ]  No
9. Does a perimeter curb or similar device need to be provided (to limit wheel loads upon the trench)? \*\* [ ]  Yes [ ]  No
10. Does the CDA for the device have trash treatment requirements?\*\* [ ]  Yes [ ]  No

If Yes, design and certify as Multi Benefit Trash Treatment (*See Caltrans Multi Benefit Treatment BMP Trash Full Capture Requirements Design Guidance*).

***Design Elements – Infiltration Gallery***

1. Has an investigation been conducted, including subsurface soil investigation, in-hole conductivity testing and groundwater elevation determination? (This report must be completed for PS&E level design.) \* [ ]  Yes [ ]  No
2. Is the surrounding soil within Hydrologic Soil Groups (HSG) Types A, B, and C while preserving an acceptable infiltration rate? \* [ ]  Yes [ ]  No
3. Is the Infiltration Gallery size sufficient to capture the WQV, or portion thereof, with a maximum 96-hour drawdown time? Longer drawdown times may be allowable, coordinate with the District/Regional Design Stormwater Coordinator. \* [ ]  Yes [ ]  No
4. Is the contributing drainage area of the gallery predominately impervious? \* [ ]  Yes [ ]  No
5. Can an observation well be placed in the gallery? \*\* [ ]  Yes [ ]  No
6. Can access be provided to the Infiltration Gallery? \* [ ]  Yes [ ]  No
7. Can pretreatment be provided to capture sediment in the runoff (such as using vegetation or a flow splitter with a sump)? \* [ ]  Yes [ ]  No
8. Can flow diversion be designed, constructed, and maintained to bypass flows exceeding the Water Quality event? \*\* [ ]  Yes [ ]  No
9. Can the Infiltration Gallery accommodate the freeboard above the overflow event elevation? If not consider bolt down manhole covers.\*\* [ ]  Yes [ ]  No
10. Has Infiltration Gallery cover been designed for traffic loads appropriate to the site usage?\* [ ]  Yes [ ]  No